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The number of spanning trees in odd valent circulant graphs. (English) Zbl 1042.05051
Discrete Math. 282, No. 1-3, 69-79 (2004).

Summary: We consider the number of spanning trees in circulant graphs. For any class of odd valent circulant graphs $C_{2n}(a_1, a_2, \dots, a_{k-1}, n)$, where a_1, a_2, \dots, a_{k-1} are fixed jumps and n varies, some formulas, asymptotic behaviors and linear recurrence relations for the number of its spanning trees are obtained, and some known results on the ones in even valent circulant graphs $C_n(a_1, a_2, \dots, a_k)$ are improved.

MSC:

05C30 Enumeration in graph theory
05C05 Trees

Cited in **1** Review
Cited in **12** Documents

Keywords:

Spanning tree; Circulant graph; Linear recurrence relation; Asymptotic behavior

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